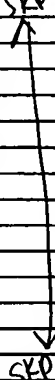


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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
Application Number				Not Yet Assigned	
Filing Date					
First Named Inventor				Harrup et. al.	
Group Art Unit				Unknown	
Examiner Name				Unknown	
Attorney Docket Number				B-214	

<u>U.S. PATENT DOCUMENTS</u>					
Examiner Initials *	Cite No.¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code² (if known)			
SKD 		US-3,817,911	06/18/1974	Taylor	
		US- 4,772,660	09/20/1988	Kitamura et al.	
		US- 4,827,005	05/02/1989	Hilterhaus	
		US- 6,146,787	11/14/2000	Harrup et al.	
		US- 6,217,775 B1	04/17/2001	Conca et al.	
		US- 6,254,786 B1	07/03/2001	Carpenter et al.	
		US- 6,357,968 B1	03/19/2002	Dwyer et al.	
		US- 6,398,960 B1	06/04/2002	Borden et al.	
		US- 6,403,364 B1	06/11/2002	Hince	
		US- 6,403,755 B1	06/11/2002	Stewart et al.	
		US- 6,423,531 B1	06/23/2002	Hince et al.	
		US- 6,428,695 B1	08/06/2002	Naftz et al.	
		US- 6,432,693 B1	08/13/2002	Hince	
		US- 6,524,485 B1	02/25/2003	Dubin et al.	
		US- 6,544,690 B1	04/08/2003	Harrup et al.	
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[illegible]

Examiner Signature	<i>Sandra K. Parker</i>	Date Considered	11/16/2005
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¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Application Number	Not Yet Assigned
Filing Date	
First Named Inventor	Harrup et. al.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	B-214

Sheet 2 of 2

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SKP		Wertsching, A., et al., Examination of the Physical Properties of Polyphosphazene-Silicate Nanocomposites Using Novel Synthetic Strategies, a submission to Composite Interfaces, Idaho Nat'l. Eng. and Environmental Lab.	
↑		Caruana, Alex, 1,200-Foot Permeable Reactive Barrier in Use at the Denver Federal Center, State of Colorado, Dept. of Health and Environment	
		Novak, Bruce M., et al., Simultaneous Interpenetrating Networks of Inorganic Glasses and Organic Polymers, New Routes into Nonshrinking Sol-Gel Derived Composites, Dept. of Chem., Univ. of California at Berkeley, pp. 698-699.	
		David, I.A., et al., A Molecular Organic/Inorganic Semi-Interpenetrating Network, Du Pont Central Research and Development Experimental Station, pp. 530-531.	
		Messersmith, P.B., et al., Synthesis of New Materials: Organoceramics, Univ. of Illinois, Dept. of Materials Science and Eng., pp. 536-537.	
		Bungay, P.M., et al. (eds.), Synthetic Membranes: Science, Engineering and Applications, NATO ASI Series, Series C: Mathematical and Physical Sciences Vol. 181, pp. 57-107, 1986, D. Reidel Publishing Co.	
		Sebesta, F., et al., Composite Ion Exchanger with Ammonium Molybdophosphate and its Properties, Journal of Radioanalytical and Nuclear Chem., Vol. 140, No. 1 (1990), pp. 15-21.	
		Novak, Bruce M., Hybrid Nanocomposite Materials—Between Inorganic Glasses and Organic Polymers, VCH Verlagsgesellschaft mbH, D-69469, Weinheim, 1993, pp. 422-433.	
		Wen, Jianye, et al., Organic/Inorganic Hybrid Network Materials by the Sol-Gel Approach, Chem. Mater., Vol. 8, No. 8, 1996, pp. 1667-1681.	
✓		Benner, S.G., et al., Porous Reactive Wall for Prevention of Acid Mine Drainage: Results of a Full-Scale Field Demonstration, International Containment Technology Conference, Conference Proceedings, Feb. 9-12, 1997, pp. 835-843.	
SKP		Powell, Robert M., et al., Permeable Reactive Barrier Technologies for Contaminant Remediation, EPA/600/R-98/125, Sept. 1998, pp. 1-94, U.S. Gov't. Printing Office.	

Examiner
Signature

John K. Paul

Date
Considered

11/16/2005

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Not Yet Assigned
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		First Named Inventor	Harrup et. al.
		Group Art Unit	Unknown
		Examiner Name	Unknown
		Attorney Docket Number	B 214
Sheet 2	of 2		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
SX		Satyanarayana, J., et al., Adsorption Studies of Cesium on a New Inorganic Exchanger Ammonium Molybdophosphate—Alumina (AMP - Al ₂ O ₃), Journal of Radioanalytical and Nuclear Chem., Vol., 242, No. 1 (1990), pp. 11-16.	
↑		Field Applications of In Situ Remediation Technologies: Permeable Reactive Barriers, U.S. Environmental Protection Agency, EPA-542-R-99-002, April 1999, pp. 1-114.	
		Moridis, George J., et al., Evaluation of Alternative Designs for an Injectable Subsurface Barrier at the Brookhaven National Laboratory Site, Long Island, New York, Water Resources Research, Vol. 35, No. 10, October 1999, pp. 2937-2953.	
		In Situ Permeable Reactive Barriers: Application and Deployment Training Session, EPA/ITRC/RTDF, Feb. 8-9, 2000.	
		Ott, Nichole, Permeable Reactive Barriers for Inorganics, U.S. Environmental Protection Agency, July 2000, pp. 1-58.	
↓		Polson, Linda, et al., Synthesis, Characterization, and Ion Sequestration of Novel Nanocomposite Materials (4/02)	
SX		Nanocomposite Permeable Reactive Barrier Research at the INEEL (2/03)	

Examiner Signature	Sandra Parker	Date Considered	11/14/2005
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